

IN THE CLAIMS:

Please amend claim 1, as indicated in the complete listing of claims provided below.

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1. (currently amended) A system for viewing Internet content, the system comprising:  
a portable device; and  
a host computer coupled to the portable device through a communication link;  
wherein the host computer receives information ~~about~~ defining a web page from  
outside and renders said information into an image of the web page in  
memory of the host computer in response to a request for the web page from  
the portable device, said information including text and graphics;  
wherein a software program running on the device implements a device browser  
window with icons which are fixed with respect to a device browser window;  
wherein the host computer reduces the color depth of a portion of the image of the  
web page which portion is proportional to the size of the device browser  
window, digitally compresses and transmits the portion of the image of the  
web page to the device, where the portion of the image of the web page is  
decompressed and stored into a display memory on the device for display;  
wherein the device enables a user to scroll the image of the web page inside the  
device browser window and sends a message to the host computer informing  
the host computer scrolling operations occurred in the device browser; and  
wherein when a part of the image of the web page is brought into the device browser  
window but has not been sent to the device, the part of the image of the web  
page is sent from the host computer to the device.

2. (previously presented) A system as claimed in claim 1 wherein portions of the image of the web page scrolled into the device browser window for display are sent to the device from the host computer and stored collectively as a page on the device without common overlapping areas of the image being sent more than once from the host computer to the device during scrolling of the image in the device browser window.
3. (previously presented) A system as claimed in claim 1 wherein the image of the web page is stored on the host computer and also on a memory in the device along with information on which portions of the image have been sent to the device, enabling displaying the image of the web page from memory of the device without the same portions being sent again from the host computer to the device after displaying one or more different web pages.
4. (previously presented) A system as claimed in claim 1 wherein when the user clicks on a link to a new web page, image data of the current web page is compressed and stored on the device in a different memory location with information on links between web pages viewed, for view again by the user at a later time, whereby a portion of an image of the new web page rendered by the host computer is received from the host computer by the device, decompressed and stored in the display memory.
5. (previously presented) A system as claimed in claim 1 wherein information about the last area displayed in the device browser window is stored in memory on the device

for the web page, wherein upon returning to the web page, said last area displayed appears first in the device browser window.

6. (previously presented) A system as claimed in claim 1 wherein the host computer reduces the color depth of the entire web page before the portion of the image of the web page, which portion is equal in size to the device browser window, is digitally compressed and transmitted to the device.
7. (previously presented) A system as claimed in claim 1 wherein the host computer digitally compresses the image of the entire web page before the portion of the image of the web page, which portion is equal in size to the device browser window, is transmitted to the device.
8. (previously presented) A system as in claim 1 wherein:  
areas of each web page viewed are stored on the host computer and also on a memory in the device along with information on which areas of web pages were sent to the device such that when scrolling to a new area outside an area of a web page previously viewed, the device sends a message from the device to the host computer instructing the host computer to send this new area to the device which is then digitally compressed and transmitted to the device for display.
9. (previously presented) A system as in claim 1 wherein:  
web pages and corresponding areas frequently viewed by the user are stored on the host computer such that, when the address of a frequently viewed web page is

entered on the device, the device sends a message containing the web page address to the host computer, which recognizes this frequently viewed web page and automatically sends corresponding areas frequently viewed to the device.

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10. (previously presented) A method to view Internet content, the method comprising:
- sending from a device to a remote server a first request for a first web page;
  - automatically receiving at the device from the remote server in a compressed format a first portion of a first image of the entire first web page;
  - displaying, on a display of the device, at least a part of the first portion of the first image of the entire first web page;
  - receiving, at the device, user input to display a second portion of the first image of the entire first web page;
  - transmitting, from the device to the remote server, data indicating the user input to display the second portion of the first image of the entire first web page;
  - receiving at the device from the remote server in a compressed format the second portion of the first image of the entire first web page only when the second portion of the first image has not been transmitted from the remote server to the device;
  - displaying the second portion of the first image of the entire first web page on the display of the device;
  - wherein the first and second portions of the first image of the entire first web page are rendered at the remote server from information defining the first web page;
  - and

wherein at least one of the first and second portions of the first image is rendered at the remote server from information including text.

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11. (previously presented) The method of claim 10, wherein the remote server retrieves the information defining the first web page from the Internet in response to the first request for the first web page.
  12. (previously presented) The method of claim 10, wherein the user input to display the second portion of the first image of the entire first web page comprises input to scroll.
  13. (previously presented) The method of claim 12, wherein the user input causes a visible part of the first portion being shown on the display of the device together with the second portion; and, the visible part of the first portion is displayed while the device is receiving the second portion from the remote server.
  14. (previously presented) The method of claim 13, wherein before the second portion is received at the device, a predetermined color is display to represent the second portion of the image.
  15. (previously presented) The method of claim 10, wherein the first portion is larger than an area on the display allocated for displaying the first web page.
  16. (previously presented) The method of claim 10, wherein the first portion of the image is equal in size to a browser window which is allocated to display the first web page on the display of the device.

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17. (previously presented) The method of claim 10, further comprising:  
receiving at the device user input for a second web page;  
storing the first and second portions of the first image of the first web page on the  
device in a compressed format;  
sending from the device to the remote server a request for the second web page;  
automatically receiving at the device from the remote server in a compressed format a  
portion of an image of the entire second web page; and  
displaying, on the display of the device, at least a part of the portion of the image of  
the entire second web page.

18. (previously presented) The method of claim 17, further comprising:  
receiving at the device user input to view the first web page after a part of the image  
of the second web page is displayed on the display of the device;  
storing the portion of the image of the second web page in a compressed format on  
the device; and  
displaying a portion of the first image of the first web page according to the first and  
second portions of the first image of the first web page stored on the device.

19. (previously presented) The method of claim 17, further comprising:  
receiving at the device user input to view the first web page after a part of the image  
of the second web page is displayed on the display of the device;  
storing the portion of the image of the second web page in a compressed format in  
memory of the device; and  
automatically displaying the second portion of the first image of the first web page.

20. (previously presented) The method of claim 19, wherein a last displayed portion of the first image of the first web page is automatically displayed in response to the user input to view the first web page.
21. (previously presented) The method of claim 10, further comprising:  
sending from the device to the remote server a second request for the first web page;  
and  
automatically receiving at the device from the remote server in a compressed format a third portion of a second image of the entire first web page, the third portion of the second image corresponding to the first and second portions of the first image of the first web page.
22. (previously presented) A method to serve Internet content, the method comprising:  
receiving at a server from a remote device a first request for a first web page;  
rendering a first portion of a first image of the entire first web page from information defining the first web page;  
selectively transmitting from the server to the remote device in a compressed format the first portion of the first image of the entire first web page for display on a display of the remote device;  
receiving, at the server from the remote device, data indicating user input to display a second portion of the first image of the entire first web page on the remote device;  
rendering the second portion of the first image of the entire first web page from the information defining the first web page;

responsive to the data indicating the user input to display the second portion,  
transmitting from the server to the remote device in a compressed format the  
second portion of the first image of the entire first web page only when the  
second portion of the first image has not been transmitted from the server to  
the remote device;

wherein at least one of the first and second portions of the first image is rendered at  
the server from information including text.

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23. (previously presented) The method of claim 22, wherein the server renders the entire first image of the entire first web page, including the first and second portions, in response to the first request for the first web page.
  24. (previously presented) The method of claim 22, wherein the server retrieves the information defining the first web page from the Internet in response to the first request for the first web page.
  25. (previously presented) The method of claim 22, wherein the user input to display the second portion of the first image of the entire first web page comprises input to scroll.
  26. (previously presented) The method of claim 22, wherein the first portion is larger than an area on the display allocated for displaying the first web page.
  27. (previously presented) The method of claim 22, wherein the first portion of the image is equal in size to a browser window which is allocated to display the first web page on the display of the remote device.



28. (previously presented) The method of claim 22, further comprising:  
receiving at the server from the remote device a request for a second web page;  
storing information about the first and second portions of the first image of the first  
web page at the server;  
rendering at least a portion of an image of the entire second web page from  
information defining the second web page; and  
transmitting from the server to the remote device in a compressed format the portion  
of the image of the entire second web page for displaying on the display of the  
remote device.
29. (previously presented) The method of claim 28, further comprising:  
receiving, at the server from the remote device, data indicating user input to display a  
third portion of the first image of the entire first web page on the remote  
device, after a part of the image of the second web page is transmitted for  
display on the remote device;  
transmitting from the server to the remote device in a compressed format the third  
portion of the first image of the entire first web page only when the third  
portion of the first image has not been transmitted from the server to the  
remote device according to the information about the first and second portions  
of the first image of the first web page stored at the server.
30. (previously presented) The method of claim 22, further comprising:  
receiving at the server from the remote device a second request for the first web page;  
and

retrieving refreshed information defining the first web page from the Internet in response to the second request;  
rendering a third portion of a second image of the entire first web page from the refreshed information defining the first web page; and  
automatically transmitting from the server to the remote device in a compressed format the third portion of the second image of the entire first web page, the third portion of the second image corresponding to the first and second portions of the first image of the first web page.

31. (previously presented) A device to view Internet content, the device comprising:
- means for sending to a remote server a first request for a first web page;
  - means for automatically receiving from the remote server in a compressed format a first portion of a first image of the entire first web page;
  - means for displaying, on a display of the device, at least a part of the first portion of the first image of the entire first web page;
  - means for receiving user input to display a second portion of the first image of the entire first web page;
  - means for transmitting, from the device to the remote server, data indicating the user input to display the second portion of the first image of the entire first web page;
  - means for receiving from the remote server in a compressed format the second portion of the first image of the entire first web page only when the second portion of the first image has not been transmitted from the remote server to the device;

means for displaying the second portion of the first image of the entire first web page  
on the display of the device;

wherein the first and second portions of the first image of the entire first web page are  
rendered at the remote server from information defining the first web page;  
and

wherein at least one of the first and second portions of the first image is rendered at  
the remote server from information including text.

32. (previously presented) The device of claim 31, wherein the remote server retrieves  
the information defining the first web page from the Internet in response to the first  
request for the first web page.
33. (previously presented) The device of claim 31, wherein the user input to display the  
second portion of the first image of the entire first web page comprises input to scroll.
34. (previously presented) The device of claim 33, wherein the user input causes a visible  
part of the first portion being shown on the display of the device together with the  
second portion; and, the visible part of the first portion is displayed while the device  
is receiving the second portion from the remote server.
35. (previously presented) The device of claim 34, wherein before the second portion is  
received at the device, a predetermined color is display to represent the second  
portion of the image.

36. (previously presented) The device of claim 31, wherein the first portion is larger than an area on the display allocated for displaying the first web page.
37. (previously presented) The device of claim 31, wherein the first portion of the image is equal in size to a browser window which is allocated to display the first web page on the display of the device.
38. (previously presented) The device of claim 31, further comprising:  
means for receiving user input for a second web page;  
means for storing the first and second portions of the first image of the first web page on the device in a compressed format;  
means for sending to the remote server a request for the second web page;  
means for automatically receiving from the remote server in a compressed format a portion of an image of the entire second web page; and  
means for displaying, on the display of the device, at least a part of the portion of the image of the entire second web page.
39. (previously presented) The device of claim 38, further comprising:  
means for receiving user input to view the first web page after a part of the image of the second web page is displayed on the display of the device;  
means for storing the portion of the image of the second web page in a compressed format on the device; and

means for displaying a portion of the first image of the first web page according to the first and second portions of the first image of the first web page stored on the device.

31 40. (previously presented) The device of claim 38, further comprising:  
means for receiving user input to view the first web page after a part of the image of the second web page is displayed on the display of the device;  
means for storing the portion of the image of the second web page in a compressed format in memory of the device; and  
means for automatically displaying the second portion of the first image of the first web page.

41. (previously presented) The device of claim 40, wherein a last displayed portion of the first image of the first web page is automatically displayed in response to the user input to view the first web page.

42. (previously presented) The device of claim 31, further comprising:  
means for sending to the remote server a second request for the first web page; and  
means for automatically receiving from the remote server in a compressed format a third portion of a second image of the entire first web page, the third portion of the second image corresponding to the first and second portions of the first image of the first web page.

43. (previously presented) A server to serve Internet content, the server comprising:  
means for receiving from a remote device a first request for a first web page;

means for rendering a first portion of a first image of the entire first web page from information defining the first web page;

means for selectively transmitting to the remote device in a compressed format the first portion of the first image of the entire first web page for display on a display of the remote device;

means for receiving, from the remote device, data indicating user input to display a second portion of the first image of the entire first web page on the remote device;

means for rendering the second portion of the first image of the entire first web page from the information defining the first web page;

means for transmitting, responsive to the data indicating the user input to display the second portion, to the remote device in a compressed format the second portion of the first image of the entire first web page only when the second portion of the first image has not been transmitted from the server to the remote device;

wherein at least one of the first and second portions of the first image is rendered at the server from information including text.

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44. (previously presented) The server of claim 43, wherein the server renders the entire first image of the entire first web page, including the first and second portions, in response to the first request for the first web page.
  45. (previously presented) The server of claim 43, wherein the server retrieves the information defining the first web page from the Internet in response to the first request for the first web page.

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46. (previously presented) The server of claim 43, wherein the user input to display the second portion of the first image of the entire first web page comprises input to scroll.
47. (previously presented) The server of claim 43, wherein the first portion is larger than an area on the display allocated for displaying the first web page.
48. (previously presented) The server of claim 43, wherein the first portion of the image is equal in size to a browser window which is allocated to display the first web page on the display of the remote device.
49. (previously presented) The server of claim 43, further comprising:  
means for receiving from the remote device a request for a second web page;  
means for storing information about the first and second portions of the first image of the first web page;  
means for rendering at least a portion of an image of the entire second web page from information defining the second web page; and  
means for transmitting to the remote device in a compressed format the portion of the image of the entire second web page for displaying on the display of the remote device.
50. (previously presented) The server of claim 49, further comprising:  
means for receiving, from the remote device, data indicating user input to display a third portion of the first image of the entire first web page on the remote

device, after a part of the image of the second web page is transmitted for display on the remote device;

means for transmitting to the remote device in a compressed format the third portion of the first image of the entire first web page only when the third portion of the first image has not been transmitted from the server to the remote device according to the information about the first and second portions of the first image of the first web page stored at the server.

31. 51. (previously presented) The server of claim 43, further comprising:

means for receiving from the remote device a second request for the first web page;  
and

means for retrieving refreshed information defining the first web page from the Internet in response to the second request;

means for rendering a third portion of a second image of the entire first web page from the refreshed information defining the first web page; and

means for automatically transmitting from the server to the remote device in a compressed format the third portion of the second image of the entire first web page, the third portion of the second image corresponding to the first and second portions of the first image of the first web page.

52. (previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to view Internet content, the method comprising:  
sending from a device to a remote server a first request for a first web page;



3 ( automatically receiving at the device from the remote server in a compressed format a first portion of a first image of the entire first web page; displaying, on a display of the device, at least a part of the first portion of the first image of the entire first web page; receiving, at the device, user input to display a second portion of the first image of the entire first web page; transmitting, from the device to the remote server, data indicating the user input to display the second portion of the first image of the entire first web page; receiving at the device from the remote server in a compressed format the second portion of the first image of the entire first web page only when the second portion of the first image has not been transmitted from the remote server to the device; displaying the second portion of the first image of the entire first web page on the display of the device; wherein the first and second portions of the first image of the entire first web page are rendered at the remote server from information defining the first web page; and wherein at least one of the first and second portions of the first image is rendered at the remote server from information including text.

53. (previously presented) The medium of claim 52, wherein the remote server retrieves the information defining the first web page from the Internet in response to the first request for the first web page.

54. (previously presented) The medium of claim 52, wherein the user input to display the second portion of the first image of the entire first web page comprises input to scroll.
55. (previously presented) The medium of claim 54, wherein the user input causes a visible part of the first portion being shown on the display of the device together with the second portion; and, the visible part of the first portion is displayed while the device is receiving the second portion from the remote server.
56. (previously presented) The medium of claim 55, wherein before the second portion is received at the device, a predetermined color is display to represent the second portion of the image.
57. (previously presented) The medium of claim 52, wherein the first portion is larger than an area on the display allocated for displaying the first web page.
58. (previously presented) The medium of claim 52, wherein the first portion of the image is equal in size to a browser window which is allocated to display the first web page on the display of the device.
59. (previously presented) The medium of claim 52, wherein the method further comprises:  
receiving at the device user input for a second web page;  
storing the first and second portions of the first image of the first web page on the device in a compressed format;

sending from the device to the remote server a request for the second web page;  
automatically receiving at the device from the remote server in a compressed format a  
portion of an image of the entire second web page; and  
displaying, on the display of the device, at least a part of the portion of the image of  
the entire second web page.

60. (previously presented) The medium of claim 59, wherein the method further comprises:

receiving at the device user input to view the first web page after a part of the image  
of the second web page is displayed on the display of the device;

storing the portion of the image of the second web page in a compressed format on  
the device; and

displaying a portion of the first image of the first web page according to the first and  
second portions of the first image of the first web page stored on the device.

61. (previously presented) The medium of claim 59, wherein the method further comprises:

receiving at the device user input to view the first web page after a part of the image  
of the second web page is displayed on the display of the device;

storing the portion of the image of the second web page in a compressed format in  
memory of the device; and

automatically displaying the second portion of the first image of the first web page.

62. (previously presented) The medium of claim 61, wherein a last displayed portion of the first image of the first web page is automatically displayed in response to the user input to view the first web page.

63. (previously presented) The medium of claim 52, wherein the method further comprises:

sending from the device to the remote server a second request for the first web page;

and

automatically receiving at the device from the remote server in a compressed format a

third portion of a second image of the entire first web page, the third portion of the second image corresponding to the first and second portions of the first image of the first web page.

64. (previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to serve Internet content, the method comprising:

receiving at a server from a remote device a first request for a first web page;

rendering a first portion of a first image of the entire first web page from information defining the first web page;

selectively transmitting from the server to the remote device in a compressed format

the first portion of the first image of the entire first web page for display on a display of the remote device;

receiving, at the server from the remote device, data indicating user input to display a second portion of the first image of the entire first web page on the remote device;

rendering the second portion of the first image of the entire first web page from the information defining the first web page;

responsive to the data indicating the user input to display the second portion, transmitting from the server to the remote device in a compressed format the second portion of the first image of the entire first web page only when the second portion of the first image has not been transmitted from the server to the remote device;

wherein at least one of the first and second portions of the first image is rendered at the server from information including text.

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65. (previously presented) The medium of claim 64, wherein the server renders the entire first image of the entire first web page, including the first and second portions, in response to the first request for the first web page.
66. (previously presented) The medium of claim 64, wherein the server retrieves the information defining the first web page from the Internet in response to the first request for the first web page.
67. (previously presented) The medium of claim 64, wherein the user input to display the second portion of the first image of the entire first web page comprises input to scroll.

68. (previously presented) The medium of claim 64, wherein the first portion is larger than an area on the display allocated for displaying the first web page.
69. (previously presented) The medium of claim 64, wherein the first portion of the image is equal in size to a browser window which is allocated to display the first web page on the display of the remote device.
70. (previously presented) The medium of claim 64, wherein the method further comprises:  
receiving at the server from the remote device a request for a second web page;  
storing information about the first and second portions of the first image of the first web page at the server;  
rendering at least a portion of an image of the entire second web page from information defining the second web page; and  
transmitting from the server to the remote device in a compressed format the portion of the image of the entire second web page for displaying on the display of the remote device.
71. (previously presented) The medium of claim 70, wherein the method further comprises:  
receiving, at the server from the remote device, data indicating user input to display a third portion of the first image of the entire first web page on the remote device, after a part of the image of the second web page is transmitted for display on the remote device;

transmitting from the server to the remote device in a compressed format the third portion of the first image of the entire first web page only when the third portion of the first image has not been transmitted from the server to the remote device according to the information about the first and second portions of the first image of the first web page stored at the server.

72. (previously presented) The medium of claim 64, wherein the method further comprises:

receiving at the server from the remote device a second request for the first web page;

and

retrieving refreshed information defining the first web page from the Internet in response to the second request;

rendering a third portion of a second image of the entire first web page from the refreshed information defining the first web page; and

automatically transmitting from the server to the remote device in a compressed format the third portion of the second image of the entire first web page, the third portion of the second image corresponding to the first and second portions of the first image of the first web page.

73. (previously presented) A method to view Internet content, the method comprising:

sending from a device to a remote server a request for a web page;

receiving at the device from the remote server in a compressed format at least a portion of an image of the entire web page, the portion of the image being rendered at the remote server from information including text;

selectively displaying the portion of the image on a display of the device according to  
a user input to the device; and  
automatically displaying the portion of the image on the display of the device in  
response to a user input to return to the web page.

74. (previously presented) The method of claim 73, wherein the user input to return to the web page comprises a selection of a back icon displayed on the display of the device.
75. (previously presented) The method of claim 73, wherein the portion of the image comprises an area of the image last displayed for the web page before the user input to return to the web page.
76. (previously presented) The method of claim 73, further comprising:  
receiving at the device from the remote server a plurality of portions of the image of  
the entire web page;  
storing on the device the plurality of portions of the image; and  
scrolling the plurality of portions of the image on the device according to the plurality  
of portions of the image stored on the device.
77. (previously presented) The method of claim 73, further comprising:  
storing on the device the portion of the image;  
wherein the portion of the image is displayed on the display of the device using the  
portion of the image stored on the device in response to the user input to  
return to the web page.



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78. (previously presented) A method to serve Internet content, the method comprising:  
storing on a server information about a plurality of frequently visited locations of a  
web page for a remote device, the plurality of frequently visited locations  
being identified through user inputs to the remote device;  
receiving at the server from the remote device a request for the web page;  
rendering at least a portion of an image of the entire web page from information  
defining the web page, the portion of the image including the plurality of  
frequently visited locations;  
transmitting in a compressed format the portion of the image from the server to the  
remote device in response to the request for the web page.
79. (previously presented) The method of claim 78, wherein the user inputs comprise  
inputs to scroll to locations of the web page for display on the remote device.
80. (previously presented) The method of claim 78, wherein a portion of the image which  
does not contain the plurality of frequently visited locations is not transmitted to the  
remote device in response to the request for the web page.
81. (previously presented) The method of claim 78, wherein the information defining the  
web page is retrieved from the Internet in response to the request for the web page.
82. (previously presented) The method of claim 81, wherein the portion of the image is  
rendered from information including text.

83. (previously presented) A method to view Internet content, the method comprising:  
sending from a device to a remote server a request for a web page;  
receiving at the device from the remote server in a compressed format a plurality of  
portions of an image of the entire web page, the plurality of portions of the  
image being rendered at the remote server from information including text;  
and  
storing on the device the plurality of portions of the image;  
receiving a user input to the device to display an area of the image; and  
displaying the area of the image according to the plurality of portions of the image  
stored on the device.

84. (previously presented) The method of claim 83, wherein the user input comprises  
scrolling the image on the display of the device.

85. (previously presented) The method of claim 84, wherein the user input comprises  
input to return to the web page.

86. (previously presented) The method of claim 85, wherein the input to return to the web  
page comprises a selection of a back icon.

87. (previously presented) The method of claim 86, wherein at least a portion of the  
image is not received at the device when the input to return to the web page is  
received.

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88. (previously presented) The method of claim 87, further comprising:  
receiving user input to display an area of the image, the area including the portion of  
the image not received at the device;  
displaying a predetermined color to represent the portion of the image not received at  
the device until the portion of the image is received at the device.
89. (previously presented) A device to view Internet content, the device comprising:  
means for sending to a remote server a request for a web page;  
means for receiving from the remote server in a compressed format at least a portion  
of an image of the entire web page, the portion of the image being rendered at  
the remote server from information including text;  
means for selectively displaying the portion of the image on a display of the device  
according to a user input to the device; and  
means for automatically displaying the portion of the image on the display of the  
device in response to a user input to return to the web page.
90. (previously presented) The device of claim 89, wherein the user input to return to the  
web page comprises a selection of a back icon displayed on the display of the device.
91. (previously presented) The device of claim 89, wherein the portion of the image  
comprises an area of the image last displayed for the web page before the user input  
to return to the web page.
92. (previously presented) The device of claim 89, further comprising:

means for receiving from the remote server a plurality of portions of the image of the entire web page;

means for storing the plurality of portions of the image; and

means for scrolling the plurality of portions of the image on the device according to the plurality of portions of the image stored on the device.

93. (previously presented) The device of claim 89, further comprising:

means for storing on the device the portion of the image;

wherein the portion of the image is displayed on the display of the device using the portion of the image stored on the device in response to the user input to return to the web page.

94. (previously presented) A server to serve Internet content, the server comprising:

means for storing information about a plurality of frequently visited locations of a web page for a remote device, the plurality of frequently visited locations being identified through user inputs to the remote device;

means for receiving from the remote device a request for the web page;

means for rendering at least a portion of an image of the entire web page from information defining the web page, the portion of the image including the plurality of frequently visited locations;

means for transmitting in a compressed format the portion of the image from the server to the remote device in response to the request for the web page.

95. (previously presented) The server of claim 94, wherein the user inputs comprise inputs to scroll to locations of the web page for display on the remote device.

96. (previously presented) The server of claim 94, wherein a portion of the image which does not contain the plurality of frequently visited locations is not transmitted to the remote device in response to the request for the web page.
97. (previously presented) The server of claim 94, wherein the information defining the web page is retrieved from the Internet in response to the request for the web page.
98. (previously presented) The server of claim 97, wherein the portion of the image is rendered from information including text.
99. (previously presented) A device to view Internet content, the device comprising:  
sending from a device to a remote server a request for a web page;  
receiving at the device from the remote server in a compressed format a plurality of  
portions of an image of the entire web page, the plurality of portions of the  
image being rendered at the remote server from information including text;  
and  
storing on the device the plurality of portions of the image;  
receiving a user input to the device to display an area of the image; and  
displaying the area of the image according to the plurality of portions of the image  
stored on the device.
100. (previously presented) The device of claim 99, wherein the user input comprises scrolling the image on the display of the device.

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101. (previously presented) The device of claim 100, wherein the user input comprises input to return to the web page.
102. (previously presented) The device of claim 101, wherein the input to return to the web page comprises a selection of a back icon.
103. (previously presented) The device of claim 102, wherein at least a portion of the image is not received at the device when the input to return to the web page is received.
104. (previously presented) The device of claim 103, further comprising:  
receiving user input to display an area of the image, the area including the portion of the image not received at the device;  
displaying a predetermined color to represent the portion of the image not received at the device until the portion of the image is received at the device.
105. (previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to view Internet content, the method comprising:  
sending from a device to a remote server a request for a web page;  
receiving at the device from the remote server in a compressed format at least a portion of an image of the entire web page, the portion of the image being rendered at the remote server from information including text;

selectively displaying the portion of the image on a display of the device according to  
a user input to the device; and  
automatically displaying the portion of the image on the display of the device in  
response to a user input to return to the web page.

106. (previously presented) The medium of claim 105, wherein the user input to return to the web page comprises a selection of a back icon displayed on the display of the device.

30 107. (previously presented) The medium of claim 105, wherein the portion of the image comprises an area of the image last displayed for the web page before the user input to return to the web page.

108. (previously presented) The medium of claim 105, wherein the method further comprises:  
receiving at the device from the remote server a plurality of portions of the image of  
the entire web page;  
storing on the device the plurality of portions of the image; and  
scrolling the plurality of portions of the image on the device according to the plurality  
of portions of the image stored on the device.

109. (previously presented) The medium of claim 105, wherein the method further comprises:  
storing on the device the portion of the image;

wherein the portion of the image is displayed on the display of the device using the portion of the image stored on the device in response to the user input to return to the web page.

110. (previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to serve Internet content, the method comprising:  
storing on a server information about a plurality of frequently visited locations of a web page for a remote device, the plurality of frequently visited locations being identified through user inputs to the remote device;  
receiving at the server from the remote device a request for the web page;  
rendering at least a portion of an image of the entire web page from information defining the web page, the portion of the image including the plurality of frequently visited locations;  
transmitting in a compressed format the portion of the image from the server to the remote device in response to the request for the web page.
111. (previously presented) The medium of claim 110, wherein the user inputs comprise inputs to scroll to locations of the web page for display on the remote device.
112. (previously presented) The medium of claim 110, wherein a portion of the image which does not contain the plurality of frequently visited locations is not transmitted to the remote device in response to the request for the web page.



113. (previously presented) The medium of claim 110, wherein the information defining the web page is retrieved from the Internet in response to the request for the web page.
114. (previously presented) The medium of claim 113, wherein the portion of the image is rendered from information including text.
115. (previously presented) A machine readable medium containing executable computer program instructions which when executed by a data processing system cause said system to perform a method to view Internet content, the method comprising:  
sending from a device to a remote server a request for a web page;  
receiving at the device from the remote server in a compressed format a plurality of portions of an image of the entire web page, the plurality of portions of the image being rendered at the remote server from information including text;  
and  
storing on the device the plurality of portions of the image;  
receiving a user input to the device to display an area of the image; and  
displaying the area of the image according to the plurality of portions of the image stored on the device.
116. (previously presented) The medium of claim 115, wherein the user input comprises scrolling the image on the display of the device.

117. (previously presented) The medium of claim 116, wherein the user input comprises input to return to the web page.

118. (previously presented) The medium of claim 117, wherein the input to return to the web page comprises a selection of a back icon.

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119. (previously presented) The medium of claim 118, wherein at least a portion of the image is not received at the device when the input to return to the web page is received.

120. (previously presented) The medium of claim 119, wherein the method further comprises:  
receiving user input to display an area of the image, the area including the portion of the image not received at the device;  
displaying a predetermined color to represent the portion of the image not received at the device until the portion of the image is received at the device.

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